

**AMENDMENTS TO THE CLAIMS**

**1. (Cancelled)**

**2. (Currently Amended)** A process for producing CMP-N-acetylneuraminic acid (CMP-NeuAc), which comprises adding 2-100 mg/ml N-acetylglucosamine-6-phosphate 2-epimerase (GlcNAc-6P 2-epimerase) and 2-100 mg/ml N-acetylneuraminic acid lyase (NeuAc lyase) to a reaction system containing N-acetylglucosamine (GlcNAc) and pyruvate, to thereby synthesize N-acetylneuraminic acid (NeuAc), and subsequently adding, to the resultant reaction system, cytidine 5'-monophosphate (CMP), 1-20% (w/v) yeast cells, and cytidine 5'-monophosphate N-acetylneuraminic acid synthase (CMP-NeuAc synthase), to thereby synthesize CMP-N-acetylneuraminic acid (CMP-NeuAc).

**3-4. (Cancelled)**

**5. (Currently Amended)** A process for producing CMP-N-acetylneuraminic acid (CMP-NeuAc), which comprises adding 1-20% (w/v) yeast cells, 2-100 mg/ml N-acetylglucosamine-6-phosphate 2-epimerase (GlcNAc-6P 2-epimerase), 2-100 mg/ml N-acetylneuraminic acid synthase (NeuAc synthase), and 2-100 mg/ml CMP-N-acetylneuraminic acid synthase (CMP-NeuAc synthase) to a reaction system containing N-acetylglucosamine (GlcNAc) and cytidine 5'-monophosphate (CMP), and inducing reaction of the mixture.

**6-7. (Cancelled)**

**8. (Previously Presented)** The process according to claim 2, further comprising adding an inorganic phosphoric acid, magnesium, and an energy source to the resultant reaction system.

**9. (Previously Presented)** The process according to claim 5, further comprising adding an inorganic phosphoric acid, magnesium, and an energy source to the reaction system.